

## Models of Earth Notes Review

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Group: \_\_\_\_\_ Section: \_\_\_\_\_



- 1) Compare & contrast a map and a globe in two ways.
  
  
  
  
  
  
  
  
  
  
- 2) What two lines are baselines for measurements on Earth's Surface? How are these baselines lines used to locate points on Earth's Surface?
  
  
  
  
  
  
  
  
  
  
- 3) What are three common map projections?
  
  
  
  
  
  
  
  
  
  
- 4) What are the advantages and disadvantages of the three projections?
  
  
  
  
  
  
  
  
  
  
- 5) Compare and contrast the equator and the prime meridian?

## Performance Task

A ratio compares two numbers by division. For example, the scale of a map given as a ratio 1 : 250,000. At this scale, the distance between two points on the map measures 23.5 cm. How would you find the actual distance?

- 1) Write the scale as a fraction.

$$1/250,000$$

- 2) Write a proportion. Let d represent the distance between two points.

$$1/250,000 = 23.5\text{cm}/d$$

- 3) Write the cross products.

$$1 \times d = 250,000 \times 23.5\text{cm}$$

$$d = 5,875,000\text{cm}$$

(Hint: To convert cm to km, divide d by 100,000)

### Practice problem #1

A map's scale is 1 : 25,000. If two points on the map are 4.7cm apart, how far apart are they on the ground?

### Practice problem #2

A globe has a scale of 1 : 40,000,000. Using a piece of string, you determine that the shortest distance between two cities on the map is 7 cm. What is the actual distance between the two cities?